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(FILE 'HOME' ENTERED AT 11:23:59 ON 25 NOV 2002)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 11:24:12 ON 25 NOV 2002

L1 9325 S TETANUS(3A)TOXIN OR TTC OT TETANUS(W)TOXIN(6A)C(W)FRAGMENT
L2 188 S TETANUS(3A)TOXIN(6A)(C OR B)(W)FRAGMENT
L3 119 S L2 AND (PROTEIN OR POLYPEPTIDE)
L4 61 DUP REM L3 (58 DUPLICATES REMOVED)

=> d au ti so 30-61 l4

L4 ANSWER 30 OF 61 CAPLUS COPYRIGHT 2002 ACS
IN Brown, Robert H.; Fishman, Paul S.; Francis, Jonathan W.; Hosler, Betsy A.
TI Superoxide dismutase/tetanus toxin fragment C hybrid **protein**
SO U.S., 23 pp.
CODEN: USXXAM

L4 ANSWER 31 OF 61 MEDLINE DUPLICATE 14
AU Saikh K U; Sesno J; Brandler P; Ulrich R G
TI Are DNA-based vaccines useful for protection against secreted bacterial
toxins? Tetanus toxin test case.
SO VACCINE, (1998 May-Jun) 16 (9-10) 1029-38.
Journal code: 8406899. ISSN: 0264-410X.

L4 ANSWER 32 OF 61 MEDLINE DUPLICATE 15
AU Shapiro R E; Specht C D; Collins B E; Woods A S; Cotter R J; Schnaar R L
TI Identification of a ganglioside recognition domain of tetanus toxin using
a novel ganglioside photoaffinity ligand.
SO JOURNAL OF BIOLOGICAL CHEMISTRY, (1997 Nov 28) 272 (48) 30380-6.
Journal code: 2985121R. ISSN: 0021-9258.

L4 ANSWER 33 OF 61 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 16
AU Coen, Laurent; Osta, Rosario; Maury, Martine; Brulet, Philippe
TI Construction of hybrid **proteins** that migrate retrogradely and
transynaptically into the central nervous system
SO Proceedings of the National Academy of Sciences of the United States of
America (1997), 94(17), 9400-9405
CODEN: PNASA6; ISSN: 0027-8424

L4 ANSWER 34 OF 61 CAPLUS COPYRIGHT 2002 ACS
AU Figueiredo, Dayse M.; Hallewell, Robert A.; Chen, Li Li; Fairweather, Neil
F.; Dougan, Gordon; Savitt, Joseph M.; Parks, Deborah A.; Fishman, Paul S.
TI Delivery of recombinant tetanus-superoxide dismutase **proteins** to
central nervous system neurons by retrograde axonal transport
SO Experimental Neurology (1997), 145(2, Pt. 1), 546-554
CODEN: EXNEAC; ISSN: 0014-4886

L4 ANSWER 35 OF 61 CAPLUS COPYRIGHT 2002 ACS
AU Chen, I.; Fontana, M. R.; Finn, T. M.; Yanqing, L.; Rappuoli, R.; Pizza,
M.
TI A live-attenuated strain of Vibrio cholerae as carrier for homologous and
heterologous antigens
SO Zentralblatt fuer Bakteriologie, Supplement (1997), 29(Bacterial Protein
Toxins), 463-465
CODEN: ZBASE2; ISSN: 0941-018X

L4 ANSWER 36 OF 61 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 17
AU Porter, Donna C.; Wang, Jun; Moldoveanu, Zina; McPherson, Sylvia; Morrow,
Casey D.
TI Immunization of mice with poliovirus replicons expressing the C-fragment
of tetanus toxin protects against lethal challenge with tetanus toxin

SO Vaccine (1997), 15(3), 257-264
CODEN: VACCDE; ISSN: 0264-410X

L4 ANSWER 37 OF 61 CAPLUS COPYRIGHT 2002 ACS
IN Katz, Robert; Tomoaia-Cotisel, Maria
TI Site-specific biomolecular complexes for drug delivery to brain
SO PCT Int. Appl., 62 pp.
CODEN: PIXXD2

L4 ANSWER 38 OF 61 MEDLINE DUPLICATE 18
AU Chabalgoity J A; Khan C M; Nash A A; Hormaeche C E
TI A Salmonella typhimurium htrA live vaccine expressing multiple copies of a peptide comprising amino acids 8-23 of herpes simplex virus glycoprotein D as a genetic fusion to tetanus toxin fragment C protects mice from herpes simplex virus infection.
SO MOLECULAR MICROBIOLOGY, (1996 Feb) 19 (4) 791-801.
Journal code: 8712028. ISSN: 0950-382X.

L4 ANSWER 39 OF 61 CAPLUS COPYRIGHT 2002 ACS
AU Norton, Pamela M.; Brown, Henry W. G.; Wells, Jeremy M.; Macpherson, Angela M.; Wilson, Peter W.; Le Page, Richard W. F.
TI Factors affecting the immunogenicity of tetanus toxin fragment C expressed in Lactococcus lactis
SO FEMS Immunology and Medical Microbiology (1996), 14(2-3), 167-177
CODEN: FIMIEV; ISSN: 0928-8244

L4 ANSWER 40 OF 61 CAPLUS COPYRIGHT 2002 ACS
AU Francis, Jonathan William
TI Expression of a recombinant copper/zinc superoxide dismutase (sod-1): **tetanus toxin c-fragment** hybrid **protein** in Escherichia coli for the targeted delivery of enzyme to neurons
SO (1995) 182 pp. Avail.: Univ. Microfilms Int., Order No. DA9526598
From: Diss. Abstr. Int., B 1995, 56(4), 1860

L4 ANSWER 41 OF 61 CAPLUS COPYRIGHT 2002 ACS
IN Khan, Mohammed Anjam; Chatfield, Steven Neville; Li, Jingli
TI Use of the promoter of the heat-shock gene htrA for expression of antigen genes in vaccine strains of bacteria
SO PCT Int. Appl., 54 pp.
CODEN: PIXXD2

L4 ANSWER 42 OF 61 CAPLUS COPYRIGHT 2002 ACS
IN Roberts, Mark
TI Vaccine compositions containing mutant pertussis toxin
SO PCT Int. Appl., 44 pp.
CODEN: PIXXD2

L4 ANSWER 43 OF 61 CAPLUS COPYRIGHT 2002 ACS
IN Khan, Mohammed Anjam; Hormaeche, Carlos Estenio; Chatfield, Steven Neville; Dougan, Gordon
TI Vectors encoding **tetanus toxin C fragment** fusion **proteins** and vaccines containing the fusion **proteins** or attenuated bacteria producing the fusion **proteins**
SO PCT Int. Appl., 44 pp.
CODEN: PIXXD2

L4 ANSWER 44 OF 61 MEDLINE DUPLICATE 19
AU Roberts M; Bacon A; Rappuoli R; Pizza M; Cropley I; Douce G; Dougan G; Marinaro M; McGhee J; Chatfield S
TI A mutant pertussis toxin molecule that lacks ADP-ribosyltransferase activity, PT-9K/129G, is an effective mucosal adjuvant for intranasally delivered **proteins**.

SO INFECTION AND IMMUNITY, (1995 Jun) 63 (6) 2100-8.
Journal code: 0246127. ISSN: 0019-9567.

L4 ANSWER 45 OF 61 CAPLUS COPYRIGHT 2002 ACS
AU Umland, Timothy Charles
TI The crystal structures of human and rat Clara cell phospholipid binding **proteins** and the preliminary crystallographic analysis of botulinum E neurotoxin and **tetanus toxin C-fragment**
SO (1994) 239 pp. Avail.: Univ. Microfilms Int., Order No. DA9431554
From: Diss. Abstr. Int. B 1995, 55(7), 2551

L4 ANSWER 46 OF 61 CAPLUS COPYRIGHT 2002 ACS
AU Mueller, G. P.
TI Toxin-mediated transfer and expression of genes in nerve cells
SO Report (1994), ARO-27890.1-LS; Order No. AD-A290 501, 17 pp. Avail.: NTIS
From: Gov. Rep. Announce. Index (U. S.) 1995, 95(19), Abstr. No. 19-02,072

L4 ANSWER 47 OF 61 CAPLUS COPYRIGHT 2002 ACS
IN Khan, Mohammed Anjam; Hormaeche, Carlos Estenio; Villarreal-Ramos, Bernardo; Chatfield, Steven Neville; Dougan, Gordon
TI Expression of genes for antigenic fusion **proteins** in attenuated bacteria for vaccines
SO PCT Int. Appl., 86 pp.
CODEN: PIXXD2

L4 ANSWER 48 OF 61 MEDLINE DUPLICATE 20
AU Khan C M; Villarreal-Ramos B; Pierce R J; Demarco de Hormaeche R; McNeill H; Ali T; Chatfield S; Capron A; Dougan G; Hormaeche C E
TI Construction, expression, and immunogenicity of multiple tandem copies of the Schistosoma mansoni peptide 115-131 of the P28 glutathione S-transferase expressed as C-terminal fusions to **tetanus toxin fragment C** in a live aro-attenuated vaccine strain of Salmonella.
SO JOURNAL OF IMMUNOLOGY, (1994 Dec 15) 153 (12) 5634-42.
Journal code: 2985117R. ISSN: 0022-1767.

L4 ANSWER 49 OF 61 CAPLUS COPYRIGHT 2002 ACS
IN Roberts, Mark; Dougan, Gordon
TI Tetanus/whooping cough Vaccine compositions for mucosal delivery
SO PCT Int. Appl., 33 pp.
CODEN: PIXXD2

L4 ANSWER 50 OF 61 CAPLUS COPYRIGHT 2002 ACS
AU Lei, Dianliang; Sugimoto, N.; Matsuda, M.
TI Characterization of single ion channels formed by fragment B of tetanus toxin in an artificial lipid bilayer
SO Shengwu Huaxue Yu Shengwu Wuli Jinzhan (1993), 20(2), 115-19
CODEN: SHYCD4; ISSN: 1000-3282

L4 ANSWER 51 OF 61 CAPLUS COPYRIGHT 2002 ACS
IN Charles, Ian George; Chatfield, Steven Neville; Fairweather, Neil Fraser
TI Attenuated bacteria expressing antigenic **protein** genes and their use as vaccines
SO PCT Int. Appl., 23 pp.
CODEN: PIXXD2

L4 ANSWER 52 OF 61 CAPLUS COPYRIGHT 2002 ACS
IN Charles, Ian George; Makoff, Andrew Joseph; Oxe, Marcus Dayman; Peakman, Timothy Charles; Cole, Jeffrey Alan
TI Use of anaerobiosis-induced promoters for manufacture of **proteins** with bacteria
SO PCT Int. Appl., 22 pp.
CODEN: PIXXD2

L4 ANSWER 53 OF 61 SCISEARCH COPYRIGHT 2002 ISI (R)
 AU ROSSETTO O; SCHIAVO G; DELAURETO P P; FABBIANI S; MONTECUCCO C (Reprint)
 TI SURFACE-TOPOGRAPHY OF HISTIDINE-RESIDUES OF TETANUS TOXIN PROBED BY
 IMMOBILIZED-METAL-ION AFFINITY-CHROMATOGRAPHY
 SO BIOCHEMICAL JOURNAL, (01 JUL 1992) Vol. 285, Part 1, pp. 9-12.
 ISSN: 0264-6021.

L4 ANSWER 54 OF 61 MEDLINE DUPLICATE 21
 AU Fishman P S; Savitt J M; Farrand D A
 TI Enhanced CNS uptake of systemically administered **proteins**
 through conjugation with tetanus C-fragment.
 SO JOURNAL OF THE NEUROLOGICAL SCIENCES, (1990 Sep) 98 (2-3) 311-25.
 Journal code: 0375403. ISSN: 0022-510X.

L4 ANSWER 55 OF 61 MEDLINE DUPLICATE 22
 AU Simpson L L; Lake P; Kozaki S
 TI Isolation and characterization of a novel human monoclonal antibody that
 neutralizes tetanus toxin.
 SO JOURNAL OF PHARMACOLOGY AND EXPERIMENTAL THERAPEUTICS, (1990 Jul) 254 (1)
 98-103.
 Journal code: 0376362. ISSN: 0022-3565.

L4 ANSWER 56 OF 61 MEDLINE DUPLICATE 23
 AU Fishman P S; Savitt J M
 TI Transsynaptic transfer of retrogradely transported tetanus **protein**
 -peroxidase conjugates.
 SO EXPERIMENTAL NEUROLOGY, (1989 Nov) 106 (2) 197-203.
 Journal code: 0370712. ISSN: 0014-4886.

L4 ANSWER 57 OF 61 MEDLINE
 AU Robbins N; Polak J
 TI Filopodia, lamellipodia and retractions at mouse neuromuscular junctions.
 SO JOURNAL OF NEUROCYTOLOGY, (1988 Aug) 17 (4) 545-61.
 Journal code: 0364620. ISSN: 0300-4864.

L4 ANSWER 58 OF 61 MEDLINE DUPLICATE 24
 AU Bittner M A; Holz R W
 TI Effects of tetanus toxin on catecholamine release from intact and
 digitonin-permeabilized chromaffin cells.
 SO JOURNAL OF NEUROCHEMISTRY, (1988 Aug) 51 (2) 451-6.
 Journal code: 2985190R. ISSN: 0022-3042.

L4 ANSWER 59 OF 61 CAPLUS COPYRIGHT 2002 ACS
 IN Fairweather, Neil Fraser
 TI Recombinant tetanus toxin or tetanus toxin epitope-contg. peptides as
 vaccines
 SO Eur. Pat. Appl., 36 pp.
 CODEN: EPXXDW

L4 ANSWER 60 OF 61 CAPLUS COPYRIGHT 2002 ACS
 AU Fishman, Paul S.; Carrigan, Donald R.
 TI Retrograde transneuronal transfer of the C-fragment of tetanus toxin
 SO Brain Research (1987), 406(1-2), 275-9
 CODEN: BRREAP; ISSN: 0006-8993

L4 ANSWER 61 OF 61 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
 AU MORRIS N P; CONSIGLIO E; KOHN L D; HABIG W H; HARDEGREE M C; HELTING T B
 TI INTERACTION OF FRAGMENTS B AND C OF TETANUS TOXIN WITH NEURAL AND THYROID
 MEMBRANES AND WITH GANGLIOSIDES.
 SO J BIOL CHEM, (1980) 255 (13), 6071-6076.
 CODEN: JBCHA3. ISSN: 0021-9258.

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(FILE 'HOME' ENTERED AT 11:23:59 ON 25 NOV 2002)

FILE 'MEDLINE, CAPLUS, BIOSIS, SCISEARCH' ENTERED AT 11:24:12 ON 25 NOV 2002

L1 9325 S TETANUS(3A)TOXIN OR TTC OT TETANUS(W)TOXIN(6A)C(W)FRAGMENT
L2 188 S TETANUS(3A)TOXIN(6A) (C OR B) (W)FRAGMENT
L3 119 S L2 AND (PROTEIN OR POLYPEPTIDE)
L4 61 DUP REM L3 (58 DUPLICATES REMOVED)
L5 175 S TETANUS(3A)TOXIN(6A)C(W)FRAGMENT
L6 16 S TETANUS(3A)TOXIN(6A)B(W)FRAGMENT
L7 3 S L5 AND L6
L8 1 DUP REM L7 (2 DUPLICATES REMOVED)

=> d bib ab 18

L8 ANSWER 1 OF 1 MEDLINE DUPLICATE 1
AN 88274387 MEDLINE
DN 88274387 PubMed ID: 3392539
TI Effects of tetanus toxin on catecholamine release from intact and
digitonin-permeabilized chromaffin cells.
AU Bittner M A; Holz R W
CS Department of Pharmacology, University of Michigan Medical School, Ann
Arbor 48109-0626.
NC R01 DK27959 (NIDDK)
SO JOURNAL OF NEUROCHEMISTRY, (1988 Aug) 51 (2) 451-6.
Journal code: 2985190R. ISSN: 0022-3042.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198808
ED Entered STN: 19900308
Last Updated on STN: 19970203
Entered Medline: 19880824
AB Tetanus exotoxin inhibited Ca²⁺-dependent catecholamine secretion in a
dose-dependent manner in digitonin-permeabilized chromaffin cells. The
inhibition was specific for tetanus exotoxin and the B fragment of
tetanus toxin; the **C fragment** had no
effect. Inhibition required the introduction of toxin into the cell, and
was not seen when intact cells were preincubated with the toxin or toxin
fragments. The degree of inhibition was related to the length of
preincubation with toxin, as well as the concentration of toxin used. A
short preincubation with toxin was sufficient to inhibit secretion, and
the continued presence of toxin in the incubation medium was not required
during the incubation with Ca²⁺. The inhibition of secretion by
tetanus toxin or the **B fragment** was
not overcome with increasing Ca²⁺ concentrations. Tetanus toxin also
inhibited catecholamine secretion enhanced by phorbol ester-induced
activation of protein kinase C. Thus, the toxin or a proteolytic fragment
of the toxin can enter digitonin-permeabilized cells to interact with a
component of the Ca²⁺-dependent exocytotic pathway to inhibit secretion.

=> d 37 41-43 bib 14

L4 ANSWER 37 OF 61 CAPLUS COPYRIGHT 2002 ACS
AN 1996:379677 CAPLUS
DN 125:41763
TI Site-specific biomolecular complexes for drug delivery to brain
IN Katz, Robert; Tomoaia-Cotisel, Maria
PA Molecular/structural Biotechnologies, Inc., USA
SO PCT Int. Appl., 62 pp.

CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | WO 9604001 | A1 | 19960215 | WO 1995-US9870 | 19950804 |
| | W: AU, CA, HU, JP, NO | | | | |
| | RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| | US 5716614 | A | 19980210 | US 1994-286327 | 19940805 |
| | US 6005004 | A | 19991221 | US 1995-487693 | 19950607 |
| | AU 9532755 | A1 | 19960304 | AU 1995-32755 | 19950804 |
| | EP 952841 | A1 | 19991103 | EP 1995-929378 | 19950804 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE | | | | |
| PRAI | US 1994-286327 | | 19940805 | | |
| | US 1995-487693 | | 19950607 | | |
| | WO 1995-US9870 | | 19950804 | | |

L4 ANSWER 41 OF 61 CAPLUS COPYRIGHT 2002 ACS

AN 1995:890197 CAPLUS

DN 123:278079

TI Use of the promoter of the heat-shock gene htrA for expression of antigen genes in vaccine strains of bacteria

IN Khan, Mohammed Anjam; Chatfield, Steven Neville; Li, Jingli

PA Medeva Holdings B.V., Neth.

SO PCT Int. Appl., 54 pp.

CODEN: PIXXD2

DT Patent
LA English
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | WO 9520665 | A1 | 19950803 | WO 1995-GB196 | 19950131 |
| | W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US | | | | |
| | RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| | AU 9515415 | A1 | 19950815 | AU 1995-15415 | 19950131 |
| | AU 701384 | B2 | 19990128 | | |
| | EP 742829 | A1 | 19961120 | EP 1995-907080 | 19950131 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| | HU 75734 | A2 | 19970528 | HU 1996-2084 | 19950131 |
| | CN 1153531 | A | 19970702 | CN 1995-191920 | 19950131 |
| | JP 09508276 | T2 | 19970826 | JP 1995-519957 | 19950131 |
| | BR 9506666 | A | 19970909 | BR 1995-6666 | 19950131 |
| | CZ 285867 | B6 | 19991117 | CZ 1996-2182 | 19950131 |
| | PL 180091 | B1 | 20001229 | PL 1995-315670 | 19950131 |
| | FI 9603016 | A | 19960925 | FI 1996-3016 | 19960730 |
| PRAI | GB 1994-1795 | A | 19940131 | | |
| | WO 1995-GB196 | W | 19950131 | | |

L4 ANSWER 42 OF 61 CAPLUS COPYRIGHT 2002 ACS

AN 1995:580843 CAPLUS

DN 122:312950

TI Vaccine compositions containing mutant pertussis toxin

IN Roberts, Mark

PA Medeva Holdings B.V., Neth.

SO PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | WO 9509649 | A1 | 19950413 | WO 1994-GB2152 | 19941004 |
| | W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN | | | | |
| | RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| | AU 9477881 | A1 | 19950501 | AU 1994-77881 | 19941004 |
| | EP 725653 | A1 | 19960814 | EP 1994-928455 | 19941004 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| | US 2001018056 | A1 | 20010830 | US 2001-775909 | 20010202 |
| PRAI | GB 1993-20454 | A | 19931005 | | |
| | GB 1993-24743 | A | 19931202 | | |
| | WO 1994-GB2152 | W | 19941004 | | |
| | US 1996-619600 | B1 | 19960401 | | |
| | US 1998-179272 | B1 | 19981027 | | |

L4 ANSWER 43 OF 61 CAPLUS COPYRIGHT 2002 ACS

AN 1995:610599 CAPLUS

DN 123:2728

TI Vectors encoding **tetanus toxin C**

fragment fusion proteins and vaccines containing the
fusion proteins or attenuated bacteria producing the fusion
proteins

IN Khan, Mohammed Anjam; Hormaeche, Carlos Estenio; Chatfield, Steven
Neville; Dougan, Gordon

PA Medeva Holdings B.V., Neth.

SO PCT Int. Appl., 44 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | WO 9504151 | A2 | 19950209 | WO 1994-GB1647 | 19940729 |
| | WO 9504151 | A3 | 19950316 | | |
| | W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN | | | | |
| | RW: KE, MW, SD, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| | WO 9403615 | A1 | 19940217 | WO 1993-GB1617 | 19930730 |
| | W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US | | | | |
| | RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| | AU 9472357 | A1 | 19950228 | AU 1994-72357 | 19940729 |
| | EP 712442 | A1 | 19960522 | EP 1994-921762 | 19940729 |
| | EP 712442 | B1 | 20020327 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| | GB 2295394 | A1 | 19960529 | GB 1996-1739 | 19940729 |
| | GB 2295394 | B2 | 19970924 | | |
| | JP 09500540 | T2 | 19970121 | JP 1994-505668 | 19940729 |
| | HU 74495 | A2 | 19970128 | HU 1996-207 | 19940729 |
| | AT 215124 | E | 20020415 | AT 1994-921762 | 19940729 |
| PRAI | WO 1993-GB1617 | A | 19930730 | | |
| | GB 1994-1787 | A | 19940131 | | |
| | GB 1992-16317 | A | 19920731 | | |
| | GB 1993-6398 | A | 19930326 | | |
| | WO 1994-GB1647 | W | 19940729 | | |

=> d bib 47 51 14

L4 ANSWER 47 OF 61 CAPLUS COPYRIGHT 2002 ACS

AN 1994:291477 CAPLUS

DN 120:291477

TI Expression of genes for antigenic fusion **proteins** in attenuated bacteria for vaccines

IN Khan, Mohammed Anjam; Hormaeche, Carlos Estenio; Villarreal-Ramos, Bernardo; Chatfield, Steven Neville; Dougan, Gordon

PA Medeva Holdings B.V., Neth.

SO PCT Int. Appl., 86 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 2

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | WO 9403615 | A1 | 19940217 | WO 1993-GB1617 | 19930730 |
| | W: AT, AU, BB, BG, BR, BY, CA, CH, CZ, DE, DK, ES, FI, GB, HU, JP, KP, KR, KZ, LK, LU, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SK, UA, US | | | | |
| | RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| | EP 652962 | A1 | 19950517 | EP 1993-917957 | 19930730 |
| | EP 652962 | B1 | 19981216 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| | JP 08503602 | T2 | 19960423 | JP 1993-505102 | 19930730 |
| | EP 863211 | A1 | 19980909 | EP 1998-104783 | 19930730 |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE | | | | |
| | AT 174628 | E | 19990115 | AT 1993-917957 | 19930730 |
| | ES 2127829 | T3 | 19990501 | ES 1993-917957 | 19930730 |
| | CA 2168459 | AA | 19950209 | CA 1994-2168459 | 19940729 |
| | WO 9504151 | A2 | 19950209 | WO 1994-GB1647 | 19940729 |
| | WO 9504151 | A3 | 19950316 | | |
| | W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN | | | | |
| | RW: KE, MW, SD, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG | | | | |
| | AU 9472357 | A1 | 19950228 | AU 1994-72357 | 19940729 |
| | EP 712442 | A1 | 19960522 | EP 1994-921762 | 19940729 |
| | EP 712442 | B1 | 20020327 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| | JP 09500540 | T2 | 19970121 | JP 1994-505668 | 19940729 |
| | AT 215124 | E | 20020415 | AT 1994-921762 | 19940729 |
| | FI 9500396 | A | 19950130 | FI 1995-396 | 19950130 |
| | NO 9500348 | A | 19950328 | NO 1995-348 | 19950130 |
| PRAI | GB 1992-16317 | A | 19920731 | | |
| | GB 1993-6398 | A | 19930326 | | |
| | EP 1993-917957 | A3 | 19930730 | | |
| | WO 1993-GB1617 | W | 19930730 | | |
| | GB 1994-1787 | A | 19940131 | | |
| | WO 1994-GB1647 | W | 19940729 | | |

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AN 1993:109672 CAPLUS

DN 118:109672

TI Attenuated bacteria expressing antigenic **protein** genes and their use as vaccines

IN Charles, Ian George; Chatfield, Steven Neville; Fairweather, Neil Fraser

PA Wellcome Foundation Ltd., UK

SO PCT Int. Appl., 23 pp.

CODEN: PIXXD2

DT Patent
LA English
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| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|---|------|----------|-----------------|----------|
| PI | WO 9215689 | A1 | 19920917 | WO 1992-GB387 | 19920305 |
| | W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, MW, NL, NO, PL, RO, RU, SD, SE, US | | | | |
| | RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG | | | | |
| | AU 9213508 | A1 | 19921006 | AU 1992-13508 | 19920305 |
| | AU 664360 | B2 | 19951116 | | |
| | EP 574466 | A1 | 19931222 | EP 1992-905914 | 19920305 |
| | EP 574466 | B1 | 19990519 | | |
| | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL | | | | |
| | JP 06505158 | T2 | 19940616 | JP 1992-505563 | 19920305 |
| | HU 66833 | A2 | 19950130 | HU 1993-2492 | 19920305 |
| | HU 219535 | B | 20010528 | | |
| | PL 170938 | B1 | 19970228 | PL 1992-296702 | 19920305 |
| | PL 171476 | B1 | 19970530 | PL 1992-312415 | 19920305 |
| | RU 2126447 | C1 | 19990220 | RU 1993-57957 | 19920305 |
| | CZ 285118 | B6 | 19990512 | CZ 1993-1005 | 19920305 |
| | AT 180280 | E | 19990615 | AT 1992-905914 | 19920305 |
| | ES 2131069 | T3 | 19990716 | ES 1992-905914 | 19920305 |
| | NO 9302423 | A | 19930702 | NO 1993-2423 | 19930702 |
| | US 5547664 | A | 19960820 | US 1994-354776 | 19941212 |
| | US 5683700 | A | 19971104 | US 1995-469507 | 19950606 |
| PRAI | GB 1991-4596 | A | 19910305 | | |
| | GB 1991-21208 | A | 19911004 | | |
| | WO 1992-GB387 | A | 19920305 | | |
| | US 1993-81361 | B1 | 19930630 | | |
| | US 1994-246773 | B1 | 19940520 | | |
| | US 1994-354776 | A3 | 19941212 | | |

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